

Claims

1. Method for producing an orthosis model for a patient, comprising:
 - inputting patient data (104),
 - 5 - determining (106) a curvature type of the patient's spine to be selected from a predefined number of curvature types on the basis of patient's data;
 - selecting (110) at least one orthosis model from a predefined number of orthoses models on the basis of the determined curvature type.
- 10 2. Method according to claim 1, wherein the patient's data contain one or more elements from the group of:
radiographs, photographs of the back, static body dimensions, dynamic body dimensions and age of the patient.
- 15 3. Method according to claim 1 or 2, wherein at least two orthoses models are selected, further comprising:
 - selecting (110) an orthosis model from the at least two orthoses models in dependence on the patient's data.
- 20 4. Method according to one of the preceding claims, further comprising:
 - obtaining (102) the patient's data.
5. Method according to one of the preceding claims, further comprising:
 - modifying (112) the selected orthosis model according to the patient's data.
- 25 6. Method according to claim 4, comprising:
 - adding the modified orthosis model to the predefined number of orthoses models.
- 30 7. Method according to one of the preceding claims, further comprising:
 - producing (114) an orthosis mould according to the selected or modified orthosis model.
8. Method according to claim 6, further comprising:

- refinishing (116) the produced orthosis mould.
9. Method according to claim 6, further comprising:
- reading in (118) the refinished orthosis mould; and
- 5 - adding an orthosis model according to the read-in orthosis mould to the predefined number of orthoses models.
10. Method according to one of the preceding claims, further comprising:
- determining (108) a new curvature type from the patient's data; and
- 10 - adding the new curvature type to the predefined number of curvature types.
11. Computer program product comprising a program code, for executing all steps of a method according to one of the preceding method claims.
- 15 12. Computer program product comprising a program code, for executing all steps of a method according to one of the preceding method claims, wherein the program code is stored on a computer-readable data carrier.
- 20 13. Computer program product comprising a program code, for executing all steps of a method according to one of the preceding method claims, provided at least partially by a network such as the Internet.
- 25 14. Computer data signal contained in a carrier wave, comprising commands for causing a computer to execute all steps of a method according to one of the preceding method claims.
15. Device for producing an orthosis model, comprising
- a data input device (6) designed for the input of the patient's data;
 - a data base (12) containing a number of curvature types and a number of
- 30 orthoses models;
- a curvature determination device (8) designed to determine a curvature type in dependence and on the basis of the patient's data; and

- an orthosis model selection device (10) designed to select at least one orthosis model from the data base (12) in dependence and on the basis of the determined curvature type.
- 5 16. Device according to claim 15, wherein the data base (12) comprises one-valued or many-valued allocations or relationships of curvature types to orthoses models, and wherein the orthosis model selection device (10) is suited to select at least one orthosis model on the basis of these allocations.
- 10 17. Device according to claim 15 or 16, wherein the orthosis model selection device (10) is suited to select at least two orthoses models, and wherein the orthosis model selection device (10) is further designed to select one orthosis model from the at least two orthoses models in dependence on the patient's data.
- 15 18. Device according to one of claims 15 to 17, further comprising:
 - a device (4) for obtaining the patient's data,wherein the device (4) is designed to input the obtained patient's data into the data input device (6).
- 20 19. Device according to one of claims 15 to 18, further comprising:
 - a data processing system (14),wherein the data processing system (14) is designed to modify the selected orthosis model according to the patient's data.
- 25 20. Device according to one of claims 15 to 19, wherein the data processing system (14) is designed to add the modified orthosis model to the predefined number of orthoses models in the data base (12).
- 30 21. Device according to one of claims 15 to 20, wherein the data processing system (14) is designed to modify the one-valued or many-valued allocations of curvature types and orthoses models in the data base (12) or to newly generate such allocations, respectively,
- 22. Device according to one of claims 15 to 21, further comprising:

- a shaping device (16),

wherein the shaping device (16) is designed to produce an orthosis mould according to the selected or modified orthosis model.

- 5 23. Device according to one of claims 15 to 22, further comprising:

- a reading-in device (18) for reading in an orthosis mould,

wherein the reading-in device (18) is designed to add an orthosis model according to the read-in orthosis mould to the number of orthoses models in the data base (12).

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24. Device according to one of claims 15 to 23, wherein the data processing system (14) is designed to determine a new curvature type from the patient's data and to add the new curvature type to the predefined number of curvature types in the data base (12).

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25. Method for producing an orthosis or prosthesis model for a patient, comprising:

- inputting patient data (104),
- calculating (106, 110) at least one orthosis or prosthesis model for the patient on the basis of said patient data.

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26. Method according to claim 25, wherein said step of calculating comprises interpolating between different orthosis or prosthesis models, the patient data of which are known.

- 25 27. Method according to one of claims 25 and 26, wherein said step of calculating comprises determining (106) a curvature type of the patient's bone to be selected from a predefined number of curvature types on the basis of patient's data, and selecting (110) at least one orthosis or prosthesis model from a predefined number of orthoses or prosthesis models on the basis of the
- 30 determined curvature type